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# ROGUE RIVER WATERSHED

WATER SUPPLY OUTLOOK

as of

APRIL 1,1954

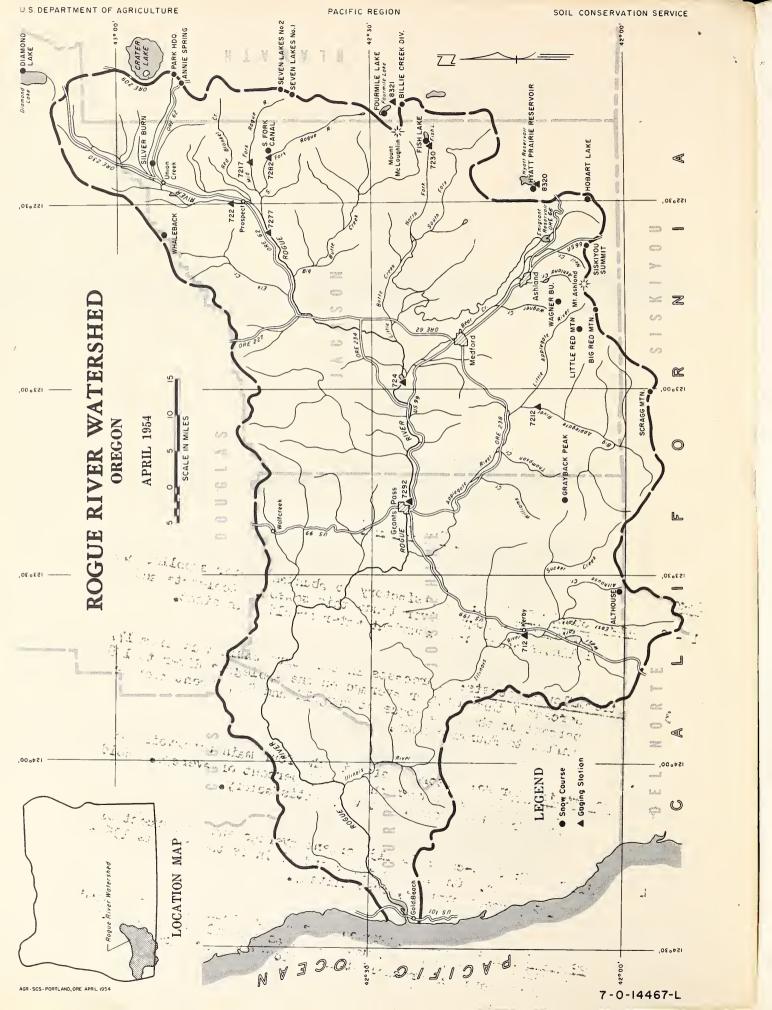


### U.S.SOIL CONSERVATION SERVICE and OREGON AGRICULTURAL EXPERIMENT STATION

### SUMMARY

#### Page

- Water Supply Outlook: Satisfactory to abundant water supplies are forecast for Rogue River lands this season. Applegate and Illinois areas have abundant water supplies in sight.
  - 3 Streamflow Forecasts: Forecasts in the Rogue Basin vary from 177
    percent 7 than 10 year average on the Applegate River to 108
    percent on the main Rogue at Roygold and 92 percent average
    inflow to Fourmile Lake.
  - Reservoir Storage: Stored water in the four main reservoirs is greater than last year and is 173 percent of average. Hold over from last season was very satisfactory.
  - Snow-Cover: Snow-cover is 113 percent average and 93 percent of last year. On the Applegate and Illinois the snow is 135 and 122 percent average, respectively.
  - Soil Moisture: Soils throughout the Rogue Basin are well wetted and even saturated in many areas as a result of extremely heavy November precipitation followed by the warm, open winter.



# WATER SUPPLY OUTLOOK - For April-September, 1954

Source of Water	Acreage Irrigate	d Outlank
Althouse Creek	250	&bove average water supplies.
Ashland Creek	302	Water supplies should be well above average. Snow-cover is greater than 1953.
Applegate River (Big)	6,687	Abundant water supplies are in sight due to the heavy snow-cover which is 135 percent average. Soils are very wet in the watersheds.
Applegate River (Little)	644	Adequate water will come from the very heavy snow-pack.
Bear Creek	. 375	Adequate water for irrigation.
Butte Creek (Big)	5,222	Eagle Point Irrigation District will have adequate water this season. Snow-cover is slightly below that of last year but is well above average.
Elk Creek		Adequate water for irrigation.
Evans Creek	800	Adequate water for all the usual irrigation. Soils well wetted.
Fourmile and Fishlake Reservoirs	13,183	Medford and Rogue River Valley Irrigation Districts will have adequate water supplies. Fourmile Lake is spilling already and inflew to Fish Lake reservoir is expected to be equal to the 10 year average 1942-51. The soil in the watersheds are w
Grave Creek	125	wetted. Adequate water for irrigation.
Hyatt and Emigrant Reservoirs	10,317	Talent Irrigation District will have adequate water supplies with inflow to Hyatt Lake expected to be 112 percent of the 10 year average. Hyatt will fill by mid-April and Emigrant is already full

a - Assuming normal meteorological conditions during the April - September period.

# WATER SUPPLY OUTLOOK (Contd.)

Source of Water	Acreage Irrigated Outlook
Illinois River	400 Abundant water supplies.
Illinois River, East Fork	900 Abundant water supplies. Snow-pack is 122 percent average.
Íllinois River, West Fork	200 Abundant water supplies.
Jump-off Joe Creek	210 Adequate for usual irrigation.
Neil Creek	1,178 Water supplies should be well above average. Snow-cover is 112 percent of last year and 132 percent average.
Red Blanket Creek	313 Adequate for usual irrigation.
Rough and Ready Creek	200 Adequate for usual irrigation.
Rogue River	14,088 Adequate water for 1954 season. Snow- cover is 107 percent average and 91 per- cent of last year. Grants Pass Irrigation District can expect low flow of river to remain high enough that no regulation will be necessary. Discharge of main Rogue above Prospect will be 111 percent average Middle Fork will be 100 percent and the South Fork will be 103 percent. Snow-cover
Slate Creek	200 at Annie Spring is 107 percent average. Adequate for usual irrigation.
Sucker Creek	1,042 Abundant water supplies. Present snow- cover is well above average and soils are very wet under snow.
Thompson Creek	861 Adequate for usual irrigation. Snow-cover well above average.
Wagner Creek	िप्रि Adequate water- McDonald Ditch will flow all or most of the season.
Williams Creek	720 Adequate for usual irrigation.

# STREAMFLOW FORECASTS a\_ As of April 1, 1954

	Gaging Station Se		eamflow in	1000 a.f. Avg.	1954 as %
No.	Name		Apr-July		as ,s af Avg
7272	Applegate R., nr. Ruch	198.0		111.7	177
_	Fourmile Lake net Inflow*	7.0	decision (FESTOR)	7.6	92
	Hyatt Res. net Inflow*	6.4	tracos saturas	5.7	112
	Illinois R., nr. Kerby	213.0	evitore melo-e	177.9	120
	L. Butte Cr., N. Fk., below Fish		energy energy	15.3	100
	Rogue R., abv. Prospect*	357.0	arigino deginos	320.3	111
•	Rogue R., abv. Prospect*	regions engines	308.0	267.8	115
7217		76.0	F1000 \$1(0)\$	· / <b>7</b> 6 <b>·1</b>	100
	Rogue R.; M. Fk., nr. Prospect*	фарт царна	60.0	60.2	100
7282	Rogue R., S. Fk., nr. Prospect*	80.0	training desires	77.9	103
	Rogue R., S. Fk., nr. Prospect*	majora ampara	69.0	66.5	104
7277	Rogue R.; below South Fork	730.0	-	686.5	106
	Rogue R.; below South Fork	-	610.0	557-2	109
	Rogue R.; at Raygold nr. Central		Management Companies	932.8	108
	Rogue R.; at Raygold nr. Central		850.0	766.2	111
7292	Rogue R., at Grants Pass	950.0	district depleton	878.7	108
	* Corrected to natural flow			51.00	

## PESERVOIR STORAGE

	Usable	Thousa	nd a.f.	in storage about	
Reserviir	Capacity 1000 a.f.	1954	1953	10 yr. Avg. 1942-51	1954 as % of 10 Yr.Avg.
Emigrant Gap Fish Lake Fourmile Lake Hyatt Prairie	8.3 7.8 16.1 16.1	8.3 7.0 15.1 14.5	8.3 6.8 14.7 13.2	7•9 4•9 7•0 6•2	105 143 216 234
Total (4 Reservoirs)	<b>48.</b> 3	44.9	43.0	26.0	173

SNOW COVER - As of April 1, 1954

Snow Course			1954		ter Content	(in) 1954
No. Name	Ele	v. Snow Dept (in)	h Content	1953	Average	as % of Avg
7218 So.Fk	r Burn 37 • Canal 35 rage	20: 0.0		0.0 16.9 8.4	11.7 6.6	0 122 109
7216 Altho 722 Billi 743 Diamo 725 Fish 7221 Hobar 723 Hyatt 728 Siski 7217 Whale	e Cr. Div. 53 nd Lake 53 Lake 48 t Lake 50 Pr. Res. 49 you Sum. 46 back 51 rage	00° 16.7 00° 54.4 15° 65.7 65° 32.4 10° 18.4 00° 27.3 30° Snow 90° 89.1	20.3 28.0 12.4 8.9 12.4 Removed	5.8 24.6 32.5 14.2 6.2 12.2 42.8 19.8	7.6 22.4 20.4 12.5 6.3 9.2 4.0 36.0 16.3	67 91 137 99 141 135  111
729 Big R 7223 Fourm 727 Grayb 7210 Littl 838 Park 7220 Scrag 7211 Seven 7212 Seven	Spring 60. ed Mtn. 65. dile Lake 60 ack Pk. 60. e Red Mtn. 65. Hdgs. 64. g Mtn. 62. Lakes #1 68. Lakes #2 62. r Butte 69.	18 115.6 00 102.3 00 62.1 00 76.0 00 74.7 50 145.5 00 74.2 00 153.0 00 104.1	42.6 25.6 36.4 32.9 63.6 37.6* 65.9 45.1	56.5 42.8 32.4 32.6 34.6 69.6 39.5 70.2 48.2 19.9 44.6	44.6 30.1 32.4 26.4 23.5 65.2 30.1 57.6 42.8 17.7 37.0	107 142 79 138 140 98 125 114 105 132
Average (19 Snow Courses) — 29.6 31.7 26.2 113 * Partly estimated						

#### SOIL MOISTURE

Soils in:	Fall Status	Current status as of April 1, 1954
Lower Valleys	Well Saturated	Well Saturated
Upper Valleys	Well Saturated	Well Saturated
Mountains	Well Saturated	Well Saturated